Translation





PCT Rec'd PCT/PTO 02 FEB 2005

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference			
03PCFP885	FOR FURTHER AC	TION See Notif Preliminary	ication of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/JP2003/009855	04 August 2003	(04.08.2003)	02 August 2002 (02.08.2002)
International Patent Classification (IPC) or na G01N 21/05, 21/77, 21/78, 27/26	ational classification and , 27/49, 21/45, 35/08,	IPC 11/00	-
Applicant			
	NEC CORPO	RATION	
This international preliminary examinand is transmitted to the applicant according to the accor	nation report has been pre	epared by this Interr	national Preliminary Examining Authority
This REPORT consists of a total of _	10 sheets, in	icluding this cover s	heet.
This report is also accompanie amended and are the basis for 70.16 and Section 607 of the A	and report and/or sneers i	CONTRIDING PECHDOS	on, claims and/or drawings which have been tions made before this Authority (see Rule
These annexes consist of a tota	l of 5 she	eets.	
3. This report contains indications relating	ng to the following items	:	
I Basis of the report			
II Priority			•
III Non-establishment of	opinion with regard to no	ovelty, inventive ste	p and industrial applicability
IV Lack of unity of inven			
V Reasoned statement un citations and explanations	nder Article 35(2) with resions supporting such state	egard to novelty, inv	ventive step or industrial applicability;
VI Certain documents cite			
VII Certain defects in the i	international application		
VIII Certain observations o	n the international applic	ation	
Date of submission of the demand	Da	ate of completion of	this report
04 August 2003 (04.08.20	103)	11 Jan	nuary 2005 (11.01.2005)
Name and mailing address of the IPEA/JP	Au	nthorized officer	
Facsimile No.	Tel	lephone No.	

Form PCT/IPEA/409 (cover sheet) (July 1998)

INTERNATIONAL PREDMINARY EXAMINATION REPORT

Internal application No.
PCT/JP2003/009855

L Basis of the report		
1. With regard to the elements of the international application	m:*	
the international application as originally filed	4.	
the description:		
pages	1-52	
pages		, as originally file
pages		, filed with the deman
the claims:		
pages	10-40	
pages		, as originally file
pages	, as amended (togeth	
pages 1-9, 41-43	, filed with the letter of	, filed with the deman 06 September 2004 (06.09.2004)
the drawings;	, mod with the letter of	00 Deptember 2004 (00.09.2004)
pages	/29-29/29	
pages		, as originally file
pages	filed with the letter of	, filed with the demand
the sequence listing part of the description:	, mod with the letter of	
ma and		
pages		, as originally file
pages	, filed with the letter of	, filed with the demand
the international application was filed, unless otherwise indi These elements were available or furnished to this Authority the language of a translation furnished for the purpos the language of publication of the international applic the language of the translation furnished for the pur or 55.3). 3. With regard to any nucleotide and/or amino acid sepreliminary examination was carried out on the basis of the sepreliminary examination was carried out on the basis of the filed together with the international application in written for furnished subsequently to this Authority in written for furnished subsequently to this Authority in computer to the statement that the subsequently furnished wrinternational application as filed has been furnished. The statement that the information recorded in combeen furnished.	y in the following language tes of international search (under Recation (under Rule 48.3(b)). rposes of international preliminary quence disclosed in the international sequence listing: form. mputer readable form. readable form. ritten sequence listing does not	y examination (under Rule 55.2 and/ tional application, the international go beyond the disclosure in the
the description, pages the claims, Nos the drawings, sheets/fig This report has been established as if (some of) the ambeyond the disclosure as filed, as indicated in the Suppl Replacement sheets which have been furnished to the receiving in this report as "originally filed" and are not annexed and 70.17). Any replacement sheet containing such amendments must be received.	nendments had not been made, sindendental Box (Rule 70.2(c)).** ng Office in response to an invitation to this report since they do not	ion under Article 14 are referred to contain amendments (Rule 70.16
	January Som I and annexe	a to this report.
rm PCT/IPEA/409 (Box I) (July 1998)		

Intermal application No.
PCT, P 03/09855

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: I.

The feature added to claim 1, wherein "the areas other than the area to which a channel is provided are made from a transparent material" is not supported by the description at the time of filing, and the amendment is acknowledged to go beyond the scope of disclosure at the time of filing.

INTERNATIONAL PREDIVINARY EXAMINATION REPORT

nal application No. PCT/JP2003/009855

1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to industrially applicable have not been examined in respect of:
the entire international application.
claims Nos.
because:
the said international application, or the said claims Nos relate to the following subject matter which does not require an international preliminary examination (specify):
the description, claims or drawings (indicate particular elements below) or said claims Nosare so unclear that no meaningful opinion could be formed (specify):
the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.
no international search report has been established for said claims Nos. 8-11, 13, 14, 16-19, 23-28, 32-34, 36-43
A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:
the written form has not been furnished or does not comply with the standard. the computer readable form has not been furnished or does not comply with the standard.
orm PCT/IPEA/409 (Box III) (July 1998)

INTERNATIONAL PRED...INARY EXAMINATION REPORT

Inte	nal application No.
P	CT/JP2003/009855

IV. Lack of unity of invention
1. In response to the invitation to restrict or pay additional fees the applicant has:
restricted the claims.
paid additional fees.
paid additional fees under protest.
neither restricted nor paid additional fees.
This Authority found that the
2. This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
complied with.
not complied with for the following reasons:
See supplemental sheet
·
. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:
all parts.
the parts relating to claims Nos1
•

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV. 3.

The feature common to claims 1-14, 18, 19, 23, 25-28, 32-34 and 36-43 is elements comprising "a substrate provided with a channel" and "detection part provided at a region of the channel, which induces a change in appearance when a specified substances flows through the channel (upon contact with the specified substance)" (common feature 1). However, as a result of this search, it has become apparent that an analytic apparatus provided with the aforementioned elements is described in JP 2001-337083 A (Sumitomo Electric Industries, Ltd.), 7 December 2001 (07.12.01), all pages and JP 2001-74724 A (Takashi Inaga), 23 March 2001 (23.03.01), entire description, and hence lacks novelty.

Consequently, the aforementioned elements do not go beyond the scope of prior art, and hence this common feature (the aforementioned elements) does not constitute a special technical feature within the meaning of PCT Rule 13.2, second sentence.

The other claims 15-17, 20-22, 24, 29-31 and 35 do not involve the aforementioned common feature.

On the other hand, the "lens covering the detection part" which is an element of claim 1 other than those mentioned above is common to claims 1, 5-11, 13, 14, 16-19, 23, 25-28, 32-34 and 36-40 (common feature 2). It has become apparent as a result of this search that this matter is also described in JP 7-500191 A (Sapidyne, Inc.), 5 January 1995, entire description, and hence lacks novelty.

Consequently, this common feature 2 does not go

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV. 3.

beyond the scope of prior art, and hence does not constitute a special technical feature within the meaning of PCT Rule 13.2, second sentence.

Claims 2-4, 12, 15, 20-22, 29-31 and 35 do not involve the aforementioned common feature 2.

Further, all the elements of claim 1, namely, "a substrate provided with a channel", "a detection part disposed at a region of the channel, which induces appearance change when a specified substance flows through the channel (upon contact with the specified substance) " and "a lens covering the detection part" (common feature 3) are common to claims 1, 5-11, 13, 14, 16-19, 23, 25-28, 32-34 and 36-43. However, it has become apparent as a result of search that this matter is also described in JP 7-500191 A (Sapidyne, Inc.), 5 January 1995, entire description, and hence lacks novelty.

Consequently, the aforementioned common feature 3 does not go beyond the scope of prior art, and hence it does not constitute a special technical feature within the meaning of PCT Rule 13.2, second sentence.

Claims 2-4, 12, 15, 20-22, 29-31 and 35 do not involve the aforementioned common feature 3.

In summing up, there is no feature common to all of the claims.

Since there is no other common feature which may be considered as a special technical feature within the

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV. 3.

meaning of PCT Rule 13.2, second sentence, no technical relationship within the meaning of PCT Rule 13 can be found between these different inventions.

When claim 1 is regarded as the first claim, the technical feature as a difference from the aforementioned "common feature 1" which lacks novelty are "a lens covering the detection part" and "the part other than the part where a channel is provided is made from a transparent material" but the claims apart from claims 5-11, 13, 14, 16-19, 23, 25-28, 32-34, 36-43 which are all dependent on claim 1, do not share a common technical feature. That is to say, independent claims 2, 3, 4, 12, 15, 20, 21, 22, 24, 29, 30 and 35 do not contain the same common feature as claim 1, and therefore constitute a different group of inventions.

Therefore, besides claims 1, this application contains twelve (12) other inventions.

INTERNATIONAL PRESENTINARY EXAMINATION REPORT

Into mal application No.
PCT/JP2003/009855

VI. Cer	VI. Certain documents cited 1. Certain published documents (Rule 70.10)				
1. Certa					
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)	
	JP 2003-247932 A	05 September 2003 (05.09.2003)	26 February 2002 (26.02.2002)		
	(EX)				
	JP 2002-277478 A	25 September 2002 (25.09.2002)	15 March 2001 (15.03.2001)		
	(EX)				
	JP 2003-156474 A	30 May 2003 (30.05.2003)	20 November 2001 (20.11.2001)		
	(EX)				

2. Non-written disclosures (Rule 70.9)		
Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. s	tatement			
	Novelty (N)	Claims		YES
		Claims	1	NO
	Inventive step (IS)	Claims		YES
		Claims	1	NO
	Industrial applicability (IA)	Claims	1	YES
		Claims		NO

2. Citations and explanations

Document 1: JP 7-500191 A (Sapidyne, Inc.), 5 January 1995

The invention set forth in claim 1 lacks novelty and does not involve an inventive step in the light of document 1.

Document 1 sets forth an analysis chip comprising a substrate (50) having a channel, detection portions (38, 40) which generate fluorescent light when ligands flow through said channel, and a channel covering member (30) which is integrally formed with the lens which covers said channel, and there is no difference between the configuration of this invention and the invention set forth in claims 1 and 2.

Therefore claim 1 lacks novelty in the light of document 1.

For the reasons set forth in Box I.5, the aforementioned assessment of novelty and inventive step was carried out based on the part of the disclosure corresponding to claim 1 at the time of filing, excluding the parts added with the correction dated 6 September 2004.